



Cloud6 4x4 Outdoor

Cloud Managed Wi-Fi 6 4 x 4 Outdoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 4x4 Access Point ECW270 supports dual concurrent 802.11ax with backward compatibility, providing up to 2,400 Mbps in the 5 GHz band and 1,200 Mbps in the 2.4 GHz band. Its IP68-rated weatherproof and dustproof housing withstands harsh environments, and its Mesh Wireless Support simplifies setup and self-heals. The EnGenius Cloud App allows remote management of an unlimited number of APs.



Features & Benefits

- Dual concurrent 802.11ax & backward-compatible with 11ac/a/b/g/n client devices
- Supports up to 2,400 Mbps in 5 GHz band & 1,200 Mbps in 2.4 GHz band
- IP68-Rated weatherproof & dustproof housing withstands harsh environments
- 1 x 2.5 Giga PoE+ compatible port realizes greater throughput and supports Power over Ethernet (802.3 at/bt) for flexible installation over 100 meters (328 feet)
- 1 x Gigabit Port
- Four detachable 5 dbi high-gain 2.4GHz antennas
- Four detachable 7 dbi high-gain 5GHz antennas
- Quick-scan device register & configuration and remote monitoring & troubleshooting
- Cloud manage an unlimited number of APs from anywhere with the EnGenius Cloud App

Technical Specifications

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Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11a/b/g/n/ac

Antenna

4 x 2.4 GHz: 5 dBi(External Omni-Directional)

4 x 5 GHz: 7 dBi(External Omni-Directional)

Physical Interfaces

1 x GE Port

1 x 2.5GE Port (PoE+)

LED indicators

1 x Power

1 x LAN1

1 x LAN2

1 x 2.4 GHz

1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3at/bt Input

Active Ethernet (PoE)

Maximum Power Consumption

46W

Wireless & Radio Specifications

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Managed mode: AP, AP Mesh, Mesh

Frequency Radio

2.4 GHz: 2400 MHz ~ 2483 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5875 MHz

Transmit Power

Up to 24 dBm on 2.4 GHz

Up to 24 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Radio Chains

4 x 4:4

SU-MIMO

Four (4) spatial stream Single User (SU) MIMO for up to 1148 Mbps wireless data rate with HE40 bandwidth to a 4x4 wireless client device under the 2.4GHz radio.

Four (4) spatial stream Single User (SU) MIMO for up to 2400 Mbps wireless data rate with HE80 to a 4x4 wireless device under the 5GHz radio.

MU-MIMO

Four (4) spatial streams Multiple (MU)-MIMO up to 2,400 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Four (4) spatial streams Multiple (MU)-MIMO up to 1,148 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

Supported Data Rates

802.11ax:

2.4 GHz: 9 to 1,148 (MCS0 to MCS11, NSS = 1 to 4)

5 GHz: 18 to 2,400 (MCS0 to MCS11, NSS = 1 to 4)

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 600 (MCS0 to MCS31)

802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4)

Supported Radio Technologies

802.11ax: Orthogonal Frequency Division Multiple Access(OFDMA)

802.11a/g/n/ac: Orthogonal Frequency Division Multiple (OFDM)

802.11b: Direct-sequence spread-spectrum (DSSS)

Channelization

802.11ax supports high efficiency throughput (HE) –HE 20/40/80 MHz

802.11ac supports very high throughput (VHT) –VHT 20/40/80 MHz

802.11n supports high throughput (HT) –HT 20/40 MHz

802.11n supports high throughput under the 2.4GHz radio –HT40 MHz (256-QAM)

802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU

Supported Modulation

802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM

802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM

802.11b: BPSK, QPSK, CCK

Max Concurrent User

512 Per radio

Technical Specifications

Management Features

Multiple BSSID

8 SSIDs on both 2.4GHz and 5GHz bands

VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging

Cross-Band VLAN Pass-Through

Management VLAN

Spanning Tree

Supports 802.1d Spanning Tree Protocol

QoS (Quality of Service)

Complaint With IEEE 802.11e Standard

WMM

SNMP

v1, v2c, v3

MIB

I/II, Private MIB

Fast Roaming

802.11r/k

Wireless Security

WPA2-PSK

WPA2-Enterprise

WPA3-PSK

WPA3-Enterprise

Hide SSID in Beacons

Wireless STA (Client) Connected List

Client Isolation

Environmental & Physical

Temperature Range

Operating: -4°~149°F/-20°C~65°C

Storage: -40°F~-176°F/-40°C~80°C

Humidity (non-condensing)

Operating: 90% or less

Storage: 90% or less

IP Rating

IP68

Surge Protection

1KV

ESD Protection

Contact: 4KV Air: 8 K

Dimensions & Weight

Weight

1870g

Dimensions

218 x 285 x 53 mm

Package Contents

1 – ECW270 Cloud Managed Outdoor Access Point

2 – Mounting Brackets

1 – Wall-Mount Screw Set

4 – 2.4GHz 5dBi Detachable Antennas

4 – 5GHz 7dBi Detachable Antennas

1 – Quick Installation Guide

Compliance

Regulatory Compliance

FCC

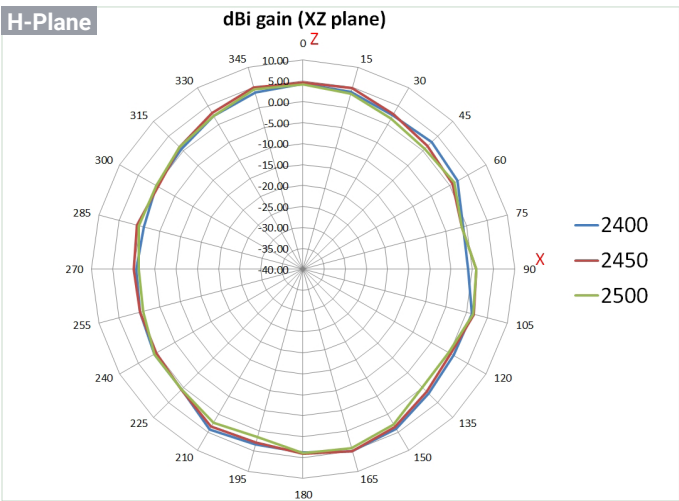
CE

IC

Antennas Patterns

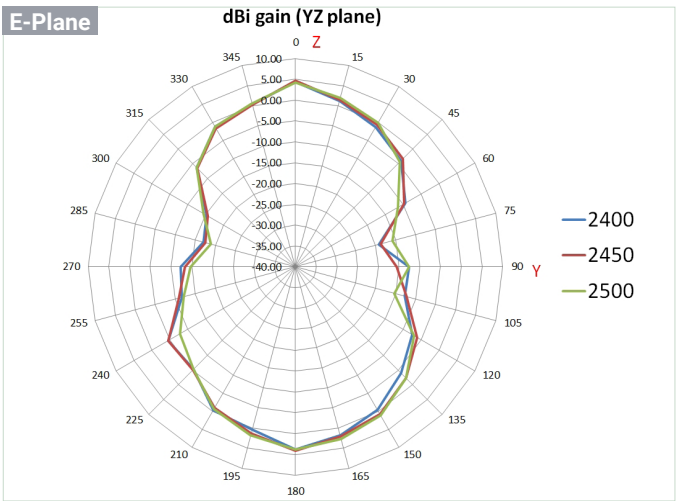
2.4GHz

H-Plane



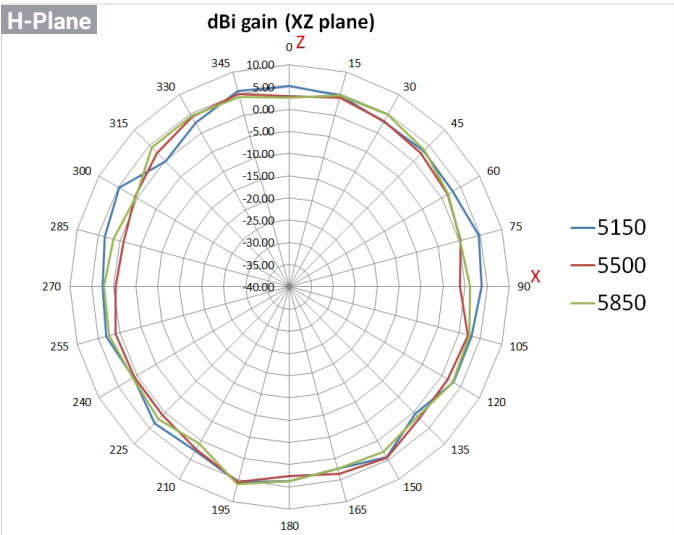
2.4GHz

E-Plane



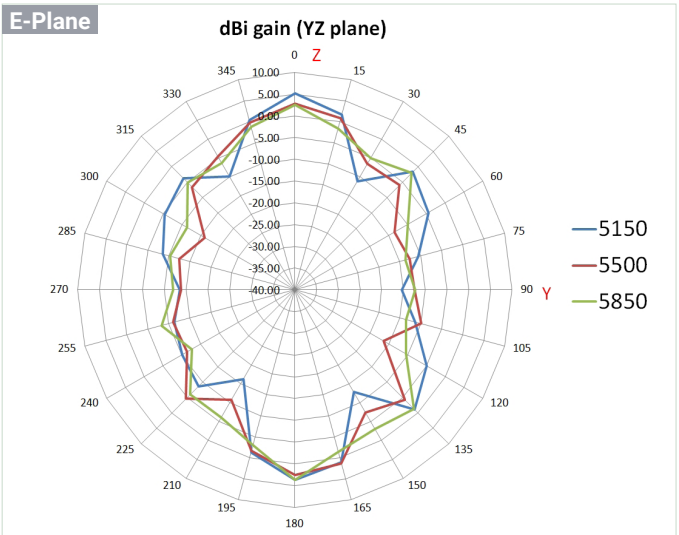
5GHz

H-Plane

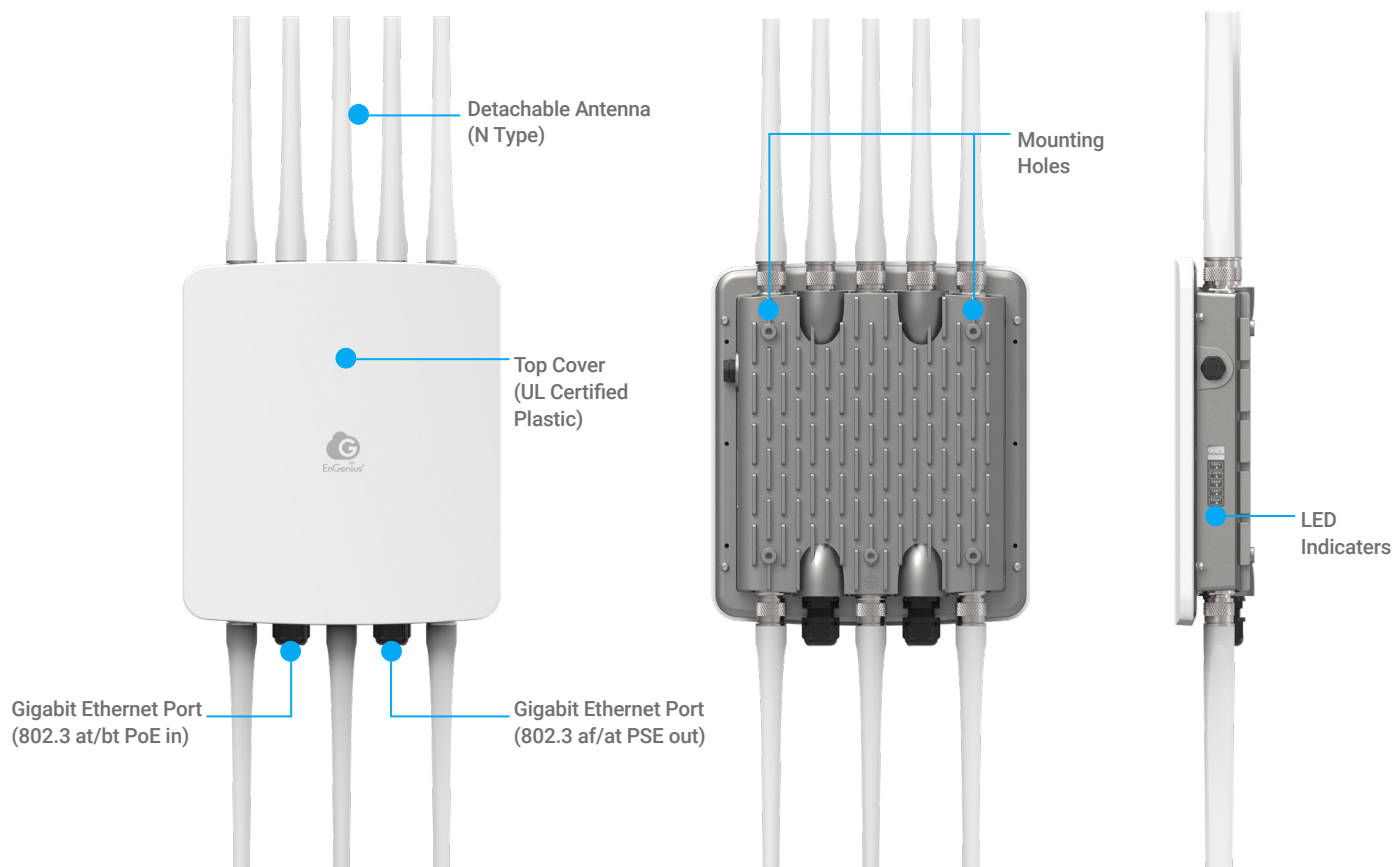


5GHz

E-Plane



Hardware Overviews



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EnGenius